



Features:

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data:

| | |
|-------------------|-------------------------------|
| Case | : JEDEC DO-27 molded plastic |
| Polarity | : Colour band denotes cathode |
| Weight | : 0.04ounces, 1.1grams |
| Mounting Position | : Any |
| Reverse Voltage | : 30 to 60 Volts |
| Forward Current | : 5 Amperes |

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| Characteristics | Symbol | SR530 | SR540 | SR560 | Unit |
|--|-----------------|-------------|-------|-------|------|
| Max. Recurrent Peak Reverse Voltage | V_{RRM} | 30 | 40 | 60 | V |
| Max. RMS Voltage | V_{RMS} | 21 | 28 | 42 | |
| Max. DC Blocking Voltage | V_{DC} | 30 | 40 | 60 | |
| Max. Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths | $I_{(AV)}$ | 5 | | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 150 | | | |
| Peak Forward Voltage at 3A DC | V_F | 0.55 | | 0.7 | V |
| Max. DC Reverse Current at Rated DC Blocking Voltage at | I_R | 1 50 | | | mA |
| Typical Junction Capacitance (Note 1) | C_J | 500 | | 350 | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JL}$ | 15 | | 10 | °C/W |
| Operating Temperature Range | T_J | -55 to +150 | | | °C |
| Storage Temperature Range | T_{STG} | | | | |

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance junction to lead
3. The typical data above is for reference only

Ratings and Characteristic Curves

FIG. 1 - FORWARD CURRENT DERATING CURVE

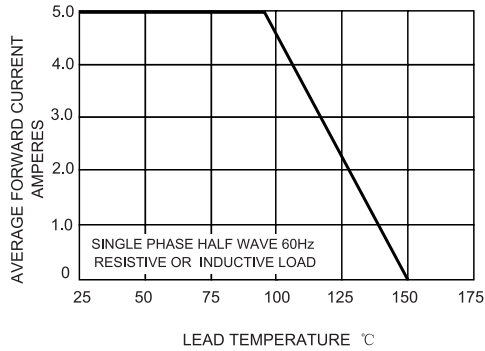


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

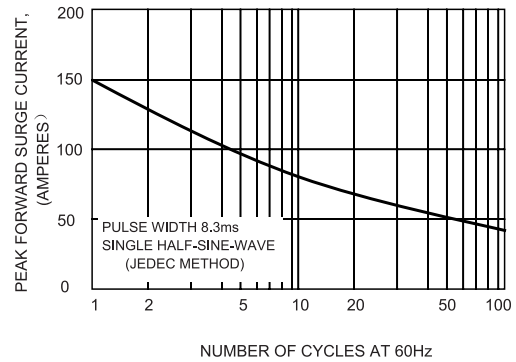


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

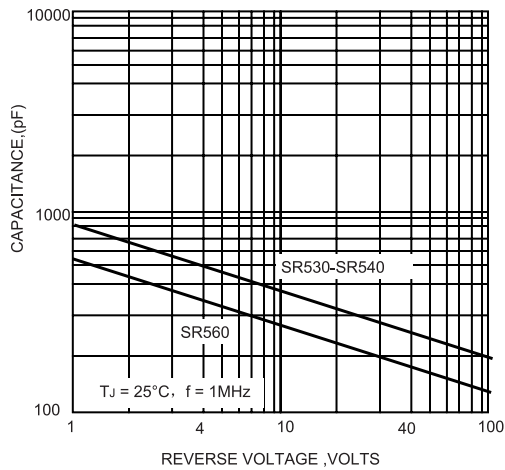


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

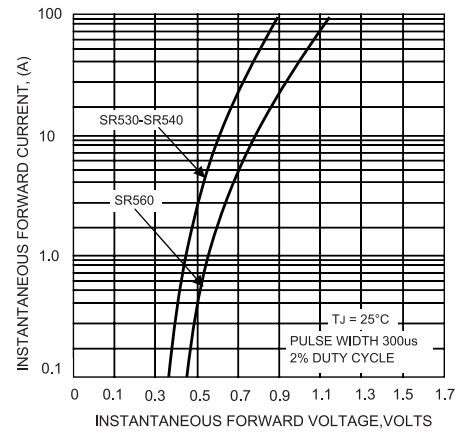
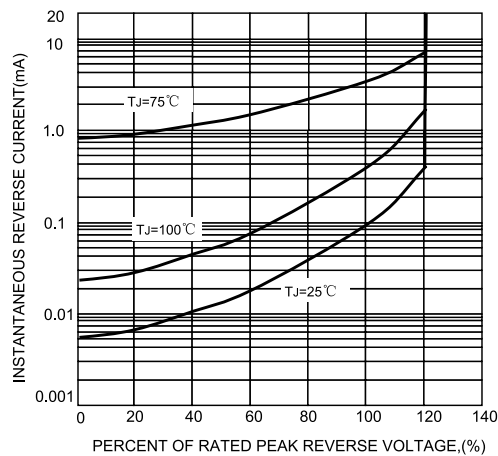
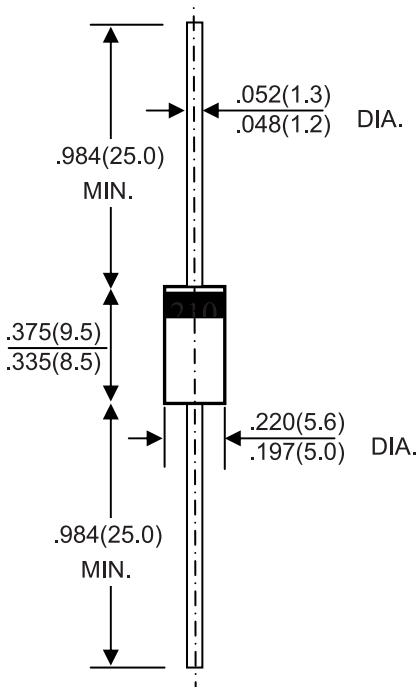


FIG. 5 - TYPICAL REVERSE



Dimensions:

DO-27



Dimensions : Inches (Millimetres)

Part Number Table

| Description | Part Number |
|---|-------------|
| Schottky Barrier Rectifier, 5A 30V, DO-27 | SR530 |
| Schottky Barrier Rectifier, 5A 40V, DO-27 | SR540 |
| Schottky Barrier Rectifier, 5A 60V, DO-27 | SR560 |

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